

Section II  
Soil and Site Information

Construction Materials Table 2  
Turner County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ac: Alcester-----	90	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ar: Arlo-----	85	Fair Low content of organic matter Carbonate content	0.12 0.68	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Carbonate content Hard to reclaim	0.00 0.68 0.82
Ba: Baltic-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.15	Poor Depth to saturated zone Too Clayey	0.00 0.00
Bb: Baltic-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.22	Poor Depth to saturated zone Too Clayey	0.00 0.00
BeE: Betts-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Slope Low strength Shrink-swell	0.00 0.00 0.87	Poor Slope Carbonate content	0.00 0.92
Ethan-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Slope Low strength Shrink-swell	0.00 0.00 0.87	Poor Slope Carbonate content	0.00 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BhE: Betts-----	65	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Slope  Low strength Shrink-swell	0.00 0.00 0.87	Poor Slope  Carbonate content	0.00 0.92
Talmo-----	20	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.24	Fair Slope	0.02	Poor Too sandy Rock fragments  Slope Hard to reclaim	0.00 0.00 0.00 0.00
BkA: Blendon-----	85	Good		Good		Good	
BmB: Blendon-----	60	Good		Good		Good	
Henkin-----	30	Fair Low content of organic matter	0.50	Good		Good	
Ca: Chancellor-----	85	Poor Too clayey Water erosion	0.00 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00
Cc: Chaska-----	90	Good		Fair Depth to saturated zone	0.53	Fair Depth to saturated zone	0.53
Cd: Clamo-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00

Section II  
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ce: Clamo-----	85	Poor Too clayey	0.00	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.34	Poor Too Clayey Depth to saturated zone	0.00 0.00
ChA: Clarno-----	65	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bonilla-----	25	Good		Poor Low strength Shrink-swell	0.00 0.90	Good	
ChB: Clarno-----	70	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Bonilla-----	20	Good		Poor Low strength Shrink-swell	0.00 0.90	Good	
CkA: Clarno-----	50	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
Crossplain-----	25	Poor Too clayey Low content of organic matter Water erosion	0.00 0.88 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.66	Poor Too Clayey Depth to saturated zone	0.00 0.00

Section II  
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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Davison-----	15	Fair Low content of organic matter Carbonate content Water erosion	0.50  0.84 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22  0.96 0.98	Fair Carbonate content Depth to saturated zone	0.84  0.98
CmB: Clarno-----	55	Fair Low content of organic matter Water erosion	0.50  0.99	Poor Low strength Shrink-swell	0.00  0.87	Good	
Davison-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.50  0.84 0.99	Fair Low strength Shrink-swell Depth to saturated zone	0.22  0.96 0.98	Fair Carbonate content Depth to saturated zone	0.84  0.98
CoB: Clarno-----	60	Fair Low content of organic matter Water erosion	0.50  0.99	Poor Low strength Shrink-swell	0.00  0.87	Good	
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.68 0.99	Poor Low strength Shrink-swell	0.00  0.87	Fair Carbonate content	0.97
CoC: Clarno-----	50	Fair Low content of organic matter Water erosion	0.50  0.99	Poor Low strength Shrink-swell	0.00  0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.68 0.99	Poor Low strength  Shrink-swell	0.00  0.87	Fair Carbonate content	0.97
Cr: Crossplain-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.88 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.66	Poor Too Clayey Depth to saturated zone	0.00 0.00
DaA: Davis-----	90	Good		Poor Low strength Shrink-swell	0.00 0.98	Good	
DaB: Davis-----	90	Good		Poor Low strength	0.00	Good	
DbA: Davis-----	85	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.32
DeA: Delmont-----	60	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.86	Good		Poor Too sandy Rock fragments  Hard to reclaim	0.00 0.00 0.32
Enet-----	30	Poor Too sandy Low content of organic matter	0.00 0.12	Good		Poor Too sandy Rock fragments  Hard to reclaim	0.00 0.00 0.82

Section II  
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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DeB: Delmont-----	50	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.86	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.32
Enet-----	40	Poor Too sandy Low content of organic matter	0.00 0.12	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.82
DgB: Dempster-----	65	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.02
Graceville-----	25	Good		Poor Low strength Shrink-swell	0.00 0.94	Good	
Do: Dimo-----	85	Fair Low content of organic matter	0.12	Fair Depth to saturated zone	0.76	Fair Hard to reclaim Depth to saturated zone	0.08 0.76
EeA: Egan-----	70	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97

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Soil and Site Information

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EeB: Egan-----	60	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
EfA: Egan-----	65	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Trent-----	25	Fair Water erosion Too clayey	0.90 0.98	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.89
EgB: Egan-----	60	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Wentworth-----	30	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
EnA: Enet-----	90	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
EsD: Ethan-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope Carbonate content	0.63 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Betts-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.92 0.99	Poor Low strength  Shrink-swell	0.00  0.87	Fair Slope  Carbonate content	0.63  0.92
EtB: Ethan-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.68 0.99	Poor Low strength  Shrink-swell	0.00  0.87	Fair Carbonate content	0.97
Egan-----	35	Fair Low content of organic matter Water erosion	0.12  0.90	Poor Low strength  Shrink-swell	0.00  0.87	Good	
EtC: Ethan-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.68 0.99	Poor Low strength  Shrink-swell	0.00  0.87	Fair Carbonate content	0.97
Egan-----	35	Fair Low content of organic matter Water erosion	0.12  0.90	Poor Low strength  Shrink-swell	0.00  0.87	Good	
HuA: Huntimer-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
La: Lamo-----	85	Fair Low content of organic matter Water erosion	0.88  0.90	Poor Low strength  Depth to saturated zone Shrink-swell	0.00  0.53 0.87	Fair Depth to saturated zone	0.53



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Or: Orthents, Gravelly--	50	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.29	Poor Slope	0.00	Poor Rock fragments Slope Too sandy Hard to reclaim	0.00 0.00 0.14 0.18
Aquents, Gravelly---	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.39	Poor Depth to saturated zone	0.00	Poor Too sandy Depth to saturated zone Rock fragments Hard to reclaim	0.00 0.00 0.00 0.18
Ro: Roxbury-----	90	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.96	Good	
Rv: Roxbury Variant----	90	Fair Water erosion	0.99	Poor Low strength Shrink-swell	0.00 0.57	Good	
Sa: Salmo-----	85	Fair Salinity Carbonate content Sodium content Too clayey	0.88 0.97 0.97 0.98	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Salinity Sodium content Too Clayey	0.00 0.00 0.98 0.98

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Te: Tetonka-----	85	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.22	Poor Depth to saturated zone	0.00
W: Water-----	100	Not rated		Not rated		Not rated	
WaA: Wakonda-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.80 0.90	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.80
Wentworth-----	30	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Chancellor-----	20	Poor Too clayey Water erosion	0.00 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00
WcA: Wentworth-----	50	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Chancellor-----	25	Poor Too clayey Water erosion	0.00 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wakonda-----	15	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.80 0.90	Poor Low strength  Shrink-swell	0.00  0.87	Fair Carbonate content	0.80
Wo: Worthing-----	90	Poor Too clayey  Water erosion	0.00  0.99	Poor Depth to saturated zone Low strength  Shrink-swell	0.00 0.00 0.00 0.12	Poor Too Clayey  Depth to saturated zone	0.00  0.00

